

EVIDEN

# Unleash the Power of Machine Learning Operations (MLOps)

Transforming with MLOps:  
Your Journey to Excellence

# Introduction

In the dynamic realm of Machine Learning, MLOps is the compass guiding you to success. Explore why elevating MLOps to a top investment priority can reshape the landscape of your projects.

## Why MLOps Matters

MLOps is the conduit to agility, efficiency, and innovation. By making it a priority, you unlock the potential to revolutionize your ML projects and stand strong in the face of evolving challenges.

## Benefits of MLOps Adoption

- Accelerated model development and deployment
- Improved model accuracy and performance
- Seamlessly synchronized team collaboration
- Resource optimization for cost-effectiveness
- Real-time monitoring and issue mitigation



# Mastering MLOps for Excellence

## Best Practice Approach - MLOps Platform as a Services and Methodology

Embarking on MLOps involves orchestration, automation, and vigilant monitoring. This holistic approach harmonizes data science and operations, ensuring a successful ML journey:

- Seamless end-to-end machine learning workflow, automated model tuning, and monitoring.
- Customize deployment workflows, automating tasks for efficiency.
- Effortlessly manage containerized apps through our Kubernetes and Docker orchestration services.
- Streamline deployment and automate workflows for data processing and training.
- Monitor model performance and ensure impeccable data pipelines with our observability services.

Elevate your MLOps journey today!

## Applying Best Practices to Your Projects

Our experts will guide you in infusing MLOps principles into your projects. Witness efficient model management, deployment, and monitoring, all leading to tangible outcomes.





# Real-World Reference Cases

## MLOps - Next Level of Data Science Operations

### Challenge

"Enhance model efficacy, performance, and precision."

### Solution

Eviden crafted a native cloud based predictive model that surpassed its predecessor. Through our 10-step MLOps maturation process, our MLOps backbone was fortified, enabling more robust Data Science management.

### Value

New models exhibited a remarkable 51% error reduction compared to the previous model.

## Delivering Enhanced AI/ML Capabilities through MLOps

### Challenge

A door designer, manufacturer, and distributor aimed to elevate AI/ML capabilities through self-sufficiency.

### Solution

Eviden orchestrated workshops, pinpointed use cases, and executed a strategic POC. We laid the groundwork for MLOps within the team, paving the way for our customers growth.

### Value

A production-ready Machine Learning solution was delivered using DevOps and Snowflake providing hidden insights on business impacts, along with an automated data pipeline to PowerBI to assist advanced insights reports consume the most recent model outputs. Furthermore, a new platform was established which was optimized for the client's continuous development and deployment of ML projects.



# Real-World Reference Cases:

## MLOps Transformation for Enhanced Consistency and Quality

### Challenge

Our customer, offering a leading SaaS platform in Document Automation for commodities, sought to elevate their product's performance with modern data science technology. They aimed to streamline contract processing in Oil, Gas, and Energy sectors while ensuring cost savings and risk reduction for clients

### Solution

Partnering with Eviden, we implemented a robust MLOps strategy on Cloud Platform's cloud native AI-Solution. This empowered the client to develop and deploy scalable ML models for precise commodity contract classification and crucial information extraction.

### Value

Our new MLOps capability, powered as cloud native solution, amplifies DOC-solution benefits of our customer. With increased accuracy and efficiency, clients experience enhanced digitization efforts. This innovation expands capabilities across various commodities and complex documents, all backed by consistent, high-quality processes to ensure a seamless and scalable experience.

## About Eviden Manufacturing AI and Analytics

At Eviden we redefine possibilities through Manufacturing AI, ML and Analytics. Our legacy of innovation fuels industries, making us your ultimate MLOps companion.

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## About the Author

Meet Manfred Ritz, expert in AI/ML, Big Data, Cloud and Advanced Analytics, in manufacturing and diverse industries, specialist reshaping industry with AI/MLOps. Our Eviden insights empower your journey to innovation through practical expertise.



**Manfred Ritz**  
Manufacturing Principal Consultant  
manfred.ritz@eviden.com  
www.eviden.com

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## About Eviden<sup>1</sup>

[Eviden](#) is a next-gen technology leader in data-driven, trusted and sustainable digital transformation with a strong portfolio of patented technologies. With worldwide leading positions in advanced computing, security, AI, cloud and digital platforms, it provides deep expertise for all industries in more than 47 countries. Bringing together 55,000 world-class talents, Eviden expands the possibilities of data and technology across the digital continuum, now and for generations to come. Eviden is an Atos Group company with an annual revenue of c. € 5 billion.

<sup>1</sup> Eviden business is operated through the following brands: Alia Consulting, AppCentrica, ATHEA, Atos Syntel, Bull, Cloudamize, Cloudreach, Cryptovision, DataSantics, digital.security, Eagle Creek, EcoAct, Edifixio, Energy4U, Engage ESM, Evidian, Forensik, IDEAL GRP, IDnomic, In Fidem, Ipsotek, Maven Wave, Miner & Kasch, Motiv, Nimbix, Processia, Profit4SF, science+computing, SEC Consult, Visual BI, Worldgrid, X-Perion, zData.

## About Atos

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